

# according to UK REACH Regulation

# **VITA VM LC CLEANER**

Revision date: 17.01.2023

Product code: 265

Page 1 of 9

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

VITA VM LC CLEANER

UFI:

6S00-Q0YN-Q00Q-S1WM

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

# Use of the substance/mixture

Use as laboratory reagent

#### 1.3. Details of the supplier of the safety data sheet

Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Street:	Spitalgasse 3	
Place:	D-79713 Bad Säckingen	
Post-office box:	1338	
	D-79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax: +49(0)7761-562-299
e-mail:	info@vita-zahnfabrik.com	
Contact person:	regulatory affairs	
e-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
Responsible Department:	Regulatory Affairs	
1.4. Emergency telephone	+49-(0)761-19240	

#### <u>number:</u>

1

# SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

# **GB CLP Regulation**

Flam. Liq. 2; H225 Eye Irrit. 2; H319

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

GB CLP	Regulation
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### **Hazard statements**

H225	
H319	

Highly flammable liquid and vapour. Causes serious eye irritation.

#### **Precautionary statements**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No
	smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P337+P313	If eye irritation persists: Get medical advice/attention.



according to UK REACH Regulation

# VITA VM LC CLEANER

Revision date: 17.01.2023

Product code: 265

Page 2 of 9

### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (GB CLF	Regulation)		
64-17-5	ethyl alcohol			90 - < 95 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit.	2; H225 H319	·	
78-93-3	butanone; ethyl methy	ketone		1 - < 5 %
	201-159-0	606-002-00-3		
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336 EUH066			

Full text of H and EUH statements: see section 16.

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	No Chemical name			
	Specific Conc. I	pecific Conc. Limits, M-factors and ATE			
64-17-5	7-5 200-578-6 ethyl alcohol				
	dermal: LD50 = 7060 mg/kg				
78-93-3	3-3 201-159-0 butanone; ethyl methyl ketone		1 - < 5 %		
	dermal: LD50 = 5000 mg/kg				

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

### Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.



according to UK REACH Regulation

# VITA VM LC CLEANER

Revision date: 17.01.2023

Product code: 265

Page 3 of 9

# Unsuitable extinguishing media

Water.

# 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### **General advice**

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

# 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

# 7.3. Specific end use(s)

Use as laboratory reagent



according to UK REACH Regulation

# VITA VM LC CLEANER

Revision date: 17.01.2023

Product code: 265

Page 4 of 9

# **SECTION 8: Exposure controls/personal protection**

# 8.1. Control parameters

### Exposure limits (EH40)

CAS No	Substance		mg/m³	fibres/ml	Category	Origin
78-93-3	Butan-2-one (methyl ethyl ketone)	200	600		TWA (8 h)	WEL
		300	899		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

#### **Biological Monitoring Guidance Values (EH40)**

CAS No	Substance	Parameter	Value	Test material	Sampling time
78-93-3	Butan-2-one	butan-2-one	70 µmol/L	urine	Post shift

# 8.2. Exposure controls







#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Dermatril P Breakthrough time: 30 min NBR (Nitrile rubber)

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Wear suitable protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

#### **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Colour:	Liquid colourless	
Changes in the physical state		
Melting point/freezing point:		not determined
Boiling point or initial boiling point and		78 °C
boiling range:		
Flash point:		13 °C
Flammability		
Solid/liquid:		not applicable
Gas:		not applicable



according to UK REACH Regulation

VITA	A VM LC CLEANER	
Revision date: 17.01.2023	Product code: 265	Page 5 of 9
Explosive properties The product is not: Explosive.		
Lower explosion limits: Upper explosion limits:	3,5 vol. % 15 vol. %	
Auto-ignition temperature:	425 °C	
Self-ignition temperature Solid: Gas: Decomposition temperature: pH-Value: Viscosity / dynamic: (at 20 °C) Solubility in other solvents not determined Partition coefficient n-octanol/water:	not applicable not applicable not determined not determined 1,2 mPa⋅s not determined <=1100 hPa	
Vapour pressure: (at 50 °C)		
Density:	0,80000 g/cm³	
Relative vapour density:	not determined	
9.2. Other information		
Information with regard to physical hazard classes Oxidizing properties Not oxidising.		
Other safety characteristics		
Solid content:	0,0 %	
Evaporation rate: Further Information	not determined	

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Highly flammable.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

# 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

#### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation



according to UK REACH Regulation

# VITA VM LC CLEANER

Revision date: 17.01.2023

Product code: 265

Page 6 of 9

### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
64-17-5	ethyl alcohol	ethyl alcohol					
	dermal	LD50 mg/kg	7060				
78-93-3	butanone; ethyl methyl ketone						
	dermal	LD50 mg/kg	5000				

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **SECTION 12: Ecological information**

# 12.1. Toxicity

The product is not: Ecotoxic.

#### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The product has not been tested.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

# Further information

Avoid release to the environment.



# according to UK REACH Regulation

# VITA VM LC CLEANER

Revision date: 17.01.2023

Product code: 265

Page 7 of 9

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself. Waste codes/waste designations according to EWC/AVV

SECTION	14:	Transport	t information
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#### Land transport (ADR/RID)

14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:	UN 1170 ETHANOL (ETHYL ALCOHOL) 3 II 3
Classification code: Special Provisions: Limited quantity: Excepted quantity: Transport category: Hazard No: Tunnel restriction code:	F1 144 601 1 L E2 2 33 D/E
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1170 ETHANOL (ETHYL ALCOHOL) 3 II 3
Classification code: Special Provisions: Limited quantity: Excepted quantity:	F1 144 601 1 L E2
Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1170 ETHANOL (ETHYL ALCOHOL) 3 II 3
Special Provisions:	144 CP EN



# according to UK REACH Regulation

VITA VM LC CLEANER			
Revision date: 17.01.2023	Product code: 265	Page 8 of 9	
Limited quantity:	1 L		
Excepted quantity:	E2		
EmS:	F-E, S-D		
Air transport (ICAO-TI/IATA-DGR)			
14.1. UN number or ID number:	UN 1170		
14.2. UN proper shipping name:	ETHANOL (ETHYL ALCOHOL)		
14.3. Transport hazard class(es):	3		
14.4. Packing group:	II		
Hazard label:	3		
Special Provisions:	A3 A58 A180		
Limited quantity Passenger:	1 L		
Passenger LQ:	Y341		
Excepted quantity:	E2		
IATA-packing instructions - Passenger:	353		
IATA-max. quantity - Passenger:	5 L		
IATA-packing instructions - Cargo:	364		
IATA-max. quantity - Cargo:	60 L		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
<ul> <li><u>14.6. Special precautions for user</u></li> <li>Warning: Combustible liquid.</li> <li><u>14.7. Maritime transport in bulk according to</u></li> </ul>	<u>o IMO instruments</u>		
not applicable			
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regul	ations/legislation specific for the substance or mixture		
EU regulatory information			
Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75			
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS		
National regulatory information			
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).	9	
Water hazard class (D):	1 - slightly hazardous to water		
15.2. Chemical safety assessment			
	ances in this mixture were not carried out.		

# **SECTION 16: Other information**

### Changes

This data sheet contains changes from the previous version in section(s): 1,2,5,6,7,8,9,10,13,14,15,16.

# Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods



according to UK REACH Regulation

# **VITA VM LC CLEANER**

Revision date: 17.01.2023

Product code: 265

Page 9 of 9

IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Eye Irrit. 2; H319	Calculation method

# Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UK REACH Regulation

# VITA VM LC Gel

Revision date: 15.08.2023

Product code: 166

Page 1 of 6

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

VITA VM LC Gel

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

#### 1.3. Details of the supplier of the safety data sheet

no. Botano or the supplier of the	Saloty data shoot	
Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Street:	Spitalgasse 3	
Place:	D-79713 Bad Säckingen	
Post-office box:	1338	
	D-79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax: +49(0)7761-562-299
E-mail:	info@vita-zahnfabrik.com	
Contact person:	regulatory affairs	
E-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
Responsible Department:	Regulatory Affairs	

#### **Further Information**

Use as laboratory reagent

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

#### 2.2. Label elements

#### 2.3. Other hazards

No information available.

#### **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

Chemical characterization

Mixtures Substance, organic

### Hazardous components

none (according to UK REACH Regulation)

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# After inhalation

Provide fresh air.

### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.



according to UK REACH Regulation

# VITA VM LC Gel

Revision date: 15.08.2023

Product code: 166

Page 2 of 6

# After ingestion

Rinse mouth immediately and drink plenty of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

### 5.2. Special hazards arising from the substance or mixture

Non-flammable.

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

# General advice

Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.



### according to UK REACH Regulation

### VITA VM LC Gel

Revision date: 15.08.2023

Product code: 166

Page 3 of 6

### 7.3. Specific end use(s)

Use as laboratory reagent

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
56-81-5	Glycerol, mist	-	10		TWA (8 h)	WEL

# 8.2. Exposure controls

Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Dermatril P NBR (Nitrile rubber)

#### Skin protection

Wear suitable protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Provide adequate ventilation as well as local exhaustion at critical locations.

### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour: Odour:	Liquid colourless odourless	
Melting point/freezing point:	Cubanooo	not determined
Boiling point or initial boiling point and		290 °C
boiling range: Flammability:		not applicable
		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		160 °C
Auto-ignition temperature:		400 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		<pre></pre>
(at 50 °C)		<-1100 m a
Density:		1,44500 g/cm³
Relative vapour density:		not determined



### according to UK REACH Regulation

# VITA VM LC Gel

Revision date: 15.08.2023Product code: 166Page 4 of 6

# 9.2. Other information

Information with regard to physical hazard classes

Self-ignition temperature Solid: Gas: Oxidizing properties Not oxidising.

#### Other safety characteristics

Evaporation rate: Solid content: not determined

not applicable not applicable

16,67 %

#### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].



### according to UK REACH Regulation

# VITA VM LC Gel

Revision date: 15.08.2023

Product code: 166

Page 5 of 6

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product is not: Ecotoxic.

#### 12.2. Persistence and degradability

The product has not been tested.

12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The product has not been tested.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

# **Further information**

Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Inland waterways transport (ADN) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Marine transport (IMDG) 14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group: Air transport (ICAO-TI/IATA-DGR) 14.1. UN number or ID number:

14.2. UN proper shipping name: 14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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### according to UK REACH Regulation

VITA VM LC Gel			
Revision date: 15.08.2023	Product code: 166	Page 6 of 6	
14.4. Packing group:	No dangerous good in sense of this transport regulation.		
14.5. Environmental hazards			
ENVIRONMENTALLY HAZARDOUS:	No		
<b>14.6. Special precautions for user</b> No information available.			
14.7. Maritime transport in bulk according not applicable	to IMO instruments		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture		
National regulatory information			
Water hazard class (D):	1 - slightly hazardous to water		
15.2. Chemical safety assessment			
Chemical safety assessments for sub	ostances in this mixture were not carried out.		
SECTION 16: Other information			
Changes			
This data sheet contains changes fro	m the previous version in section(s): 1.		

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50%

# **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UK REACH Regulation

# VITA VM LC OPAQUE

Revision date: 15.08.2023

Product code: 148

Page 1 of 8

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

VITA VM LC OPAQUE

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

### 1.3. Details of the supplier of the safety data sheet

no. Details of the supplier of the	Salety data sheet	
Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Street:	Spitalgasse 3	
Place:	D-79713 Bad Säckingen	
Post-office box:	1338	
	D-79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax:+49(0)7761-562-299
E-mail:	info@vita-zahnfabrik.com	
Contact person:	regulatory affairs	
E-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
Responsible Department:	Regulatory Affairs	

#### **Further Information**

medical device

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

#### 2.2. Label elements

# 2.3. Other hazards

No information available.

#### **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### Chemical characterization

Substance, organic Product/Substance is inorganic. Mixtures

#### Hazardous components

CAS No	Chemical name			Quantity
	EC No Index No REACH No			
Classification (GB CLP Regulation)				
13463-67-7	Titanium dioxide			20 - < 25 %
	236-675-5 01-2119489379-17			
	Carc. 2; H351	•		

Full text of H and EUH statements: see section 16.



according to UK REACH Regulation

# VITA VM LC OPAQUE

Revision date: 15.08.2023

Product code: 148

Page 2 of 8

### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
13463-67-7	236-675-5	Titanium dioxide	20 - < 25 %
	oral: LD50 = > 2000 mg/kg		

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air.

#### After contact with skin

Wash with plenty of water. Take off contaminated clothing and wash it before reuse.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

# 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Avoid dust formation. Do not breathe dust.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13



# according to UK REACH Regulation

# VITA VM LC OPAQUE

Revision date: 15.08.2023

Product code: 148

Page 3 of 8

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

# 7.3. Specific end use(s)

Use as laboratory reagent

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
13463-67-7	Titanium dioxide, total inhalable	-	10		TWA (8 h)	WEL

#### DNEL/DMEL values

CAS No	Substance						
DNEL type		Exposure route	Effect	Value			
13463-67-7	Titanium dioxide						
Worker DNEL, long-term inhalation local 1.2			1.25 mg/m³				
Consumer DNEL, long-term		oral	systemic	700 mg/kg bw/day			

**PNEC** values

CAS No	Substance				
Environmental compartment Value					
13463-67-7	Titanium dioxide				
Freshwater		0.184 mg/l			
Freshwater (intermittent releases) 0.193 mg/l					
Marine water 0.018 mg/l					
Freshwater sediment 1000 mg/kg					
Marine sediment 100 mg/kg					
Micro-organisms in sewage treatment plants (STP) 100 mg/l					
Soil 100 mg/kg					

#### 8.2. Exposure controls

Individual protection measures, such as personal protective equipment



# according to UK REACH Regulation

# VITA VM LC OPAQUE

Revision date: 15.08.2023

Product code: 148

Page 4 of 8

# Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Dermatril P NBR (Nitrile rubber)

#### Skin protection

Use of protective clothing.

#### **Respiratory protection**

Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state:	solid	
Colour:	characteristic	
Odour: Melting point/freezing point:	characteristic	not determined
Boiling point or initial boiling point	and	2501 °C
boiling range:	and	2001 0
Flammability:		not determined
2		not applicable
Lower explosion limits:		not determined
Upper explosion limits:		not determined
Flash point:		> 250 °C
Decomposition temperature:		not determined
pH-Value:		not determined
Water solubility:		No
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/wate	er:	not determined
Vapour pressure:		not determined not determined
Density: Relative vapour density:		not determined
		not determined
9.2. Other information		
Information with regard to physi	cal hazard classes	
Explosive properties The product is not: Explosive.		
Self-ignition temperature		
Solid:		not determined
Gas:		not applicable
Oxidizing properties		
Not oxidising.		
Other safety characteristics		
Evaporation rate:		not determined
Solid content:		100
CECTION 40. Stability and read		

# **SECTION 10: Stability and reactivity**



according to UK REACH Regulation

# VITA VM LC OPAQUE

Revision date: 15.08.2023

Product code: 148

Page 5 of 8

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### CAS No Chemical name Dose Exposure route Species Source Method Titanium dioxide 13463-67-7 oral LD50 Rat Study report (1996) **OECD 401** > 2000 mg/kg

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

### Additional information on tests

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.



# according to UK REACH Regulation

# VITA VM LC OPAQUE

Revision date: 15.08.2023

Product code: 148

Page 6 of 8

CAS No Chemical name									
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method		
13463-67-7	Titanium dioxide								
	Acute fish toxicity	LC50 mg/l	>100	96 h	Carassius	REACH Registration Dossier	OECD Guidline 203		
	Acute algae toxicity	ErC50	>50 mg/l	72 h	Raphidocelis subcapitata	REACH Registration Dossier	OECD Guidline 201		
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Artemina salina	REACH Registration Dossier	OECD Guidline 202		
	Fish toxicity	NOEC mg/l	>=80	6 d	Danio rerio	REACH Registration Dossier	OECD TG 210		
	Algae toxicity	NOEC	>=1 mg/l	32 d	Synedra ulna, Scenedesmus quadricauda, Stigeocloni	Environ. Tox. Chem. 31,2414-2422 (2012)	In this study, the authors report there		
	Crustacea toxicity	NOEC	>1 mg/l	10 d	Chironomus riparius	REACH Registration Dossier	other: OECD Guideline 219		
	Acute bacteria toxicity	(EC50 mg/l)	>1000	3 h	activated sludge, domestic	REACH Registration Dossier	OECD Guideline 209		

### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### BCF

CAS No	Chemical name	BCF	Species	Source
13463-67-7	Titanium dioxide	>0.47-<3.19	Artemia salina	REACH Registration D

### 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The product has not been tested.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# 12.7. Other adverse effects

No information available.

# Further information

Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods



according to UK REACH Regulation

# VITA VM LC OPAQUE

Revision date: 15.08.2023

Product code: 148

Page 7 of 8

# **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

### Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
<u>14.4. Packing group:</u>	No dangerous good in sense of this transport regulation.
Inland waterways transport (ADN)	
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
<u>14.3. Transport hazard class(es):</u>	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Marine transport (IMDG)	
<u>14.1. UN number or ID number:</u>	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user	
No information available.	
14.7. Maritime transport in bulk according	to IMO instruments
not applicable	
SECTION 15: Regulatory information	
15.1. Safety, health and environmental reg	ulations/legislation specific for the substance or mixture
EU regulatory information	
Information according to 2012/18/EU	Not subject to 2012/18/EU (SEVESO III)
(SEVESO III):	·····
National regulatory information	
Water hazard class (D):	1 - slightly hazardous to water
15.2. Chemical safety assessment	
	stances in this mixture were not carried out.
Chemical salety assessments for sub	

# **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 1.



Page 8 of 8

according to UK REACH Regulation

# VITA VM LC OPAQUE Product code: 148

Revision date: 15.08.2023

Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu Carc: Carcinogenicity Relevant H and EUH statements (number and full text)

# H351 Suspected of causing cancer.

# **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UK REACH Regulation

# VITAVM LC SEPARATOR

Revision date: 10.07.2023

Product code: 152

Page 1 of 12

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

VITAVM LC SEPARATOR

Product group:

UFI:

Zwischenprodukt 1H00-60WF-T007-T15E

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

#### 1.3. Details of the supplier of the safety data sheet

Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Street:	Spitalgasse 3	
Place:	D-79713 Bad Säckingen	
Post-office box:	1338	
	D-79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax: +4
E-mail:	info@vita-zahnfabrik.com	
Contact person:	regulatory affairs	
E-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
Responsible Department:	Regulatory Affairs	

#### +49(0)7761-562-299

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

### **GB CLP Regulation**

Flam. Liq. 2; H225 Asp. Tox. 1; H304 Skin Irrit. 2; H315 Eye Dam. 1; H318 Repr. 2; H361d STOT SE 3; H336 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

**GB CLP Regulation** 

# Hazard components for labelling toluene

cyclohexane methylsilanetriyl triacetat Danger

# Signal word:





according to UK REACH Regulation

# **VITAVM LC SEPARATOR**

Revision date: 10.07.2023

Product code: 152

Page 2 of 12

Llanard statements	
Hazard statements	
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statemen	Its
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P331	Do NOT induce vomiting.
P391	Collect spillage.

# 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
110-82-7	cyclohexane			50 - < 55 %
	203-806-2	601-017-00-1	01-2119463273-41	
	Flam. Liq. 2, Skin Irrit. 2, STOT SE H336 H304 H400 H410	3, Asp. Tox. 1, Aquatic Acute	1, Aquatic Chronic 1; H225 H315	
108-88-3	toluene			10 - < 15 %
	203-625-9	601-021-00-3	05-2114615130-69	
	Flam. Liq. 2, Repr. 2, Skin Irrit. 2, S H373 H304			
4253-34-3	methylsilanetriyl triacetat			1 - < 5 %
	224-221-9			
	Acute Tox. 4, Skin Corr. 1B; H302			
1067-33-0	dibutyltin diacetate			< 1 %
	213-928-8			
	Acute Tox. 2, Skin Irrit. 2, Eye Irrit.			

Full text of H and EUH statements: see section 16.



according to UK REACH Regulation

VITAVM LC SEPARATOR

Revision date: 10.07.2023

Product code: 152

Page 3 of 12

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity		
	Specific Conc	Limits, M-factors and ATE			
110-82-7	203-806-2	cyclohexane	50 - < 55 %		
	dermal: LD50	) = 12705 mg/kg			
108-88-3	203-625-9	toluene	10 - < 15 %		
	inhalation: LC	inhalation: LC50 = 49 mg/l (vapours); dermal: LD50 = 12200 mg/kg			
4253-34-3	224-221-9	methylsilanetriyl triacetat	1 - < 5 %		
	oral: ATE = 500 mg/kg				
1067-33-0	213-928-8	dibutyltin diacetate	< 1 %		
	dermal: LD50	) = 2320 mg/kg; oral: LD50 = 32 mg/kg			

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. Medical treatment necessary.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

#### After ingestion

Observe risk of aspiration if vomiting occurs.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

#### Unsuitable extinguishing media

Water.

#### 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

# 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures



according to UK REACH Regulation

# **VITAVM LC SEPARATOR**

Revision date: 10.07.2023

Product code: 152

Page 4 of 12

#### General advice

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

# 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

#### 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8 Disposal: see section 13

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

#### 7.3. Specific end use(s)

Use as laboratory reagent

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
110-82-7	Cyclohexane	100	350		TWA (8 h)	WEL
		300	1050		STEL (15 min)	WEL
108-88-3	Toluene	50	191		TWA (8 h)	WEL
		100	384		STEL (15 min)	WEL

# 8.2. Exposure controls



Revision date: 10.07.2023

# Safety Data Sheet

according to UK REACH Regulation

# VITAVM LC SEPARATOR

Product code: 152

Page 5 of 12











#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Dermatril P Breakthrough time: 60 min NBR (Nitrile rubber)

#### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing Wear suitable protective clothing.

#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Technical ventilation of workplace Provide adequate ventilation as well as local exhaustion at critical locations.

### **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

1. Information on basic physical and che		
Physical state:	Liquid	
Colour:	translucent	
Odour:	characteristic	
		Test method
Melting point/freezing point:	not determined	
Boiling point or initial boiling point and	77 °C	
boiling range:		
Flammability:	not applicable	
	not applicable	
Lower explosion limits:	1,2 vol. %	
Upper explosion limits:	8,3 vol. %	
Flash point:	< 5 °C	
Auto-ignition temperature:	260 °C	DIN 51794
Decomposition temperature:	not determined	
pH-Value:	not determined	
Water solubility:	No	
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	<=1100 hPa	
(at 50 °C)		
Density:	0,86700 g/cm³	
Relative vapour density:	not determined	
2. Other information		

#### 9.2. Other information



0.0 %

according to UK REACH Regulation

# VITAVM LC SEPARATOR

Revision date: 10.07.2023 Product code: 152 Page 6 of 12 Information with regard to physical hazard classes Explosive properties The product is not: Explosive. Self-ignition temperature not applicable Solid: not applicable Gas: Oxidizing properties Not oxidising. Other safety characteristics not determined Evaporation rate:

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Solid content:

Highly flammable.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

### 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

### Acute toxicity

Based on available data, the classification criteria are not met.

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l



according to UK REACH Regulation

# VITAVM LC SEPARATOR

Revision date: 10.07.2023

Product code: 152

Page 7 of 12

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
110-82-7	cyclohexane					
	dermal	LD50 mg/kg	12705			
108-88-3	toluene					
	dermal	LD50 mg/kg	12200	Rabbit	GESTIS	
	inhalation (4 h) vapour	LC50	49 mg/l	Rat	GESTIS	
4253-34-3	methylsilanetriyl triacetat					
	oral	ATE mg/kg	500			
1067-33-0	dibutyltin diacetate					
	oral	LD50	32 mg/kg			
	dermal	LD50 mg/kg	2320			

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye damage.

#### Sensitising effects

Based on available data, the classification criteria are not met.

# Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of damaging the unborn child. (toluene)

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

# STOT-single exposure

May cause drowsiness or dizziness. (cyclohexane)

#### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (toluene)

# Aspiration hazard

May be fatal if swallowed and enters airways.

# Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP]. Special hazards arising from the substance or mixture!

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Very toxic to aquatic life with long lasting effects.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
108-88-3	toluene						
	Acute fish toxicity	LC50	13 mg/l	96 h	Carassius auratus	IUCLID	
	Acute algae toxicity	ErC50 mg/l	12,5	72 h		GESTIS	

# 12.2. Persistence and degradability

The product has not been tested.



according to UK REACH Regulation

# VITAVM LC SEPARATOR

Revision date: 10.07.2023

Product code: 152

Page 8 of 12

# 12.3. Bioaccumulative potential

The product has not been tested.

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-88-3	toluene	2,73

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Land transport (ADR/RID)

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

14.1. UN number or ID number:	UN 1993
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (cyclohexane , toluene)
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Special Provisions:	274 601 640D
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	33
Tunnel restriction code:	D/E
Inland waterways transport (ADN) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u>	UN 1993 FLAMMABLE LIQUID, N.O.S. (cyclohexane , toluene)



# according to UK REACH Regulation

	VITAVM LC SEPARATOR	
Revision date: 10.07.2023	Product code: 152	Page 9 of 7
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
Hazard label:	3	
	3	
Classification code:	F1	
Special Provisions:	274 601 640D	
Limited quantity:	1L	
Excepted quantity:	E2	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 1993	,
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (cyclohexane , toluen	ie)
14.3. Transport hazard class(es):	3 II	
<u>14.4. Packing group:</u> Hazard label:	3	
Hazard label.	 ▲	
	<u></u>	
	274	
Special Provisions: Limited quantity:	274 1 L	
Excepted quantity:	E2	
EmS:	 F-E, S-E	
Air transport (ICAO-TI/IATA-DGR)		
14.1. UN number or ID number:	UN 1993	
14.2. UN proper shipping name:	FLAMMABLE LIQUID, N.O.S. (cyclohexane , toluen	ne)
14.3. Transport hazard class(es):	3	
14.4. Packing group:	II	
Hazard label:	3	
	3	
Special Provisions:	A3	
Limited quantity Passenger:	1 L	
Passenger LQ:	Y341	
Excepted quantity:	E2 353	
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:	353 5 L	
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:	364	
IATA-max. quantity - Cargo:	60 L	
14.5. Environmental hazards		
ENVIRONMENTALLY HAZARDOUS:	Yes	$\wedge$
ENVIRONMENTALLY HAZARDOUS:	res	¥.
Denger releasing outstands	avelahavana	$\checkmark$
Danger releasing substance:	cyclohexane	
14.6. Special precautions for user		
Warning: Combustible liquid.	o IMO instrumento	
14.7. Maritime transport in bulk according t not applicable	<u>o invic instruments</u>	



according to UK REACH Regulation

# VITAVM LC SEPARATOR

Revision date: 10.07.2023

Product code: 152

Page 10 of 12

# SECTION 15: Regulatory information

EU regulatory information	ulations/legislation specific for the substance or mixture
Restrictions on use (REACH, annex XVII Entry 3, Entry 40, Entry 48, Entry 57,	,
2010/75/EU (VOC):	10 % (86,7 g/l)
2004/42/EC (VOC):	10 % (86,7 g/l)
Information according to 2012/18/EU (SEVESO III):	E1 Hazardous to the Aquatic Environment
Additional information:	P5c
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	2 - obviously hazardous to water
15.2. Chemical safety assessment	
Chemical safety assessments for sub	ostances in this mixture were not carried out.

# **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 1.



according to UK REACH Regulation

# **VITAVM LC SEPARATOR**

Revision date: 10.07.2023

Product code: 152

Page 11 of 12

Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN. United Nations DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu Flam. Liq: Flammable liquids Acute Tox: Acute toxicity Asp. Tox: Aspiration hazard Skin Corr: Skin corrosion Skin Irrit: Skin irritation Eye Dam: Eye damage Eye Irrit: Eye irritation Repr: Reproductive toxicity STOT SE: Specific target organ toxicity - single exposure STOT RE: Specific target organ toxicity - repeated exposure Aquatic Acute: Acute aquatic hazard Aquatic Chronic: Chronic aquatic hazard



according to UK REACH Regulation

# VITAVM LC SEPARATOR

Revision date: 10.07.2023

Product code: 152

Page 12 of 12

### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Asp. Tox. 1; H304	Calculation method
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method
Repr. 2; H361d	Calculation method
STOT SE 3; H336	Calculation method
STOT RE 2; H373	Calculation method
Aquatic Acute 1; H400	Calculation method
Aquatic Chronic 1; H410	Calculation method

## Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H300	Fatal if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
EUH014	Reacts violently with water.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022

Product code: 218

Page 1 of 11

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

# 1.3. Details of the supplier of the safety data sheet

1.3. Details of the supplier of the s	safety data sheet	
Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Street:	Spitalgasse 3	
Place:	D-79713 Bad Säckingen	
Post-office box:	1338	
	D-79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax: +49(0)7761-562-299
e-mail:	info@vita-zahnfabrik.com	
Contact person:	regulatory affairs	
e-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
Responsible Department:	Regulatory Affairs	
1.4. Emergency telephone	+49-(0)761-19240	
and the second sec		

#### number:

Further Information

medical device

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# GB CLP Regulation

#### Hazard components for labelling

2-hydroxyethyl methacrylate

7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)

2-dimethylaminoethyl methacrylate

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide **nal word:** Warning

# Signal word:





# Hazard statements

H315

Causes skin irritation.



# according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

#### Revision date: 18.11.2022

Product code: 218

Page 2 of 11

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Precautionary statemer	nts
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.

# 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# Hazardous components

CAS No	Chemical name			Quantity	
	EC No	Index No	REACH No		
	Classification (GB CLP Regulation	)			
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dio isomers)	oxa-5,12-diaza-hexadecan-1,16-diol-	dimethacrylat (mixture of	15 - < 20 %	
	276-957-5		01-2120751202-68		
	Skin Sens. 1B, Aquatic Chronic 3;	H317 H412			
94108-97-1	Ditrimethylolpropane Tetraacrylate			5 - < 10 %	
	302-434-9		01-2119977121-41		
	Eye Irrit. 2, Aquatic Chronic 2; H31	9 H411			
2867-47-2	2-dimethylaminoethyl methacrylate				
	220-688-8	607-132-00-3			
	Acute Tox. 4, Acute Tox. 4, Skin In	rit. 2, Eye Irrit. 2, Skin Sens. 1; H312	H302 H315 H319 H317		
10373-78-1	Camphorquinone			1 - < 5 %	
	233-814-1				
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3	; H315 H319 H335			
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)ph	osphine oxide		1 - < 5 %	
	278-355-8				
	Repr. 2, Skin Sens. 1, Aquatic Chro	onic 2; H361f H317 H411			
79-41-4	Methacrylsäure			< 1 %	
	201-204-4		01-2119463884-26		
	Acute Tox. 3, Acute Tox. 4, Acute Tox. 4, Skin Corr. 1A, STOT SE 3; H311 H332 H302 H314 H335				

Full text of H and EUH statements: see section 16.



according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022

Product code: 218

Page 3 of 11

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc. Limits, M-factors and ATE		
2867-47-2	220-688-8	2-dimethylaminoethyl methacrylate	5 - < 10 %
	dermal: ATE =	1100 mg/kg; oral: ATE = 500 mg/kg	
79-41-4	201-204-4	Methacrylsäure	< 1 %
		= 11 mg/l (vapours); inhalation: ATE = 1.5 mg/l (dusts or mists); dermal: ATE = : ATE = 500 mg/kg	

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

# 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# 5.2. Special hazards arising from the substance or mixture

Non-flammable.

### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up



according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022

Product code: 218

Page 4 of 11

# Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

### Hints on joint storage

No special measures are necessary.

### 7.3. Specific end use(s)

Use as laboratory reagent

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

### **Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
		40	143		STEL (15 min)	WEL
13463-67-7	Titanium dioxide, total inhalable	-	10		TWA (8 h)	WEL

#### 8.2. Exposure controls



# Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the



according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022

Product code: 218

Page 5 of 11

supplier of these gloves. Recommended glove articles KCL DermatrilP NBR (Nitrile rubber) Breakthrough time: 480 min

#### Skin protection

Use of protective clothing.

### **Respiratory protection**

Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour:	
Changes in the physical state	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and	?
boiling range:	151 °C
Flash point:	151 C
Flammability Solid/liquid:	not determined
Gas:	not applicable
Explosive properties	
The product is not: Explosive.	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Self-ignition temperature	
Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	No
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	<=1100 hPa
(at 50 °C)	<=1100 m a
Density:	not determined
Relative vapour density:	not determined
0.2. Other information	
Information with regard to physical hazard classes	
Oxidizing properties Not oxidising.	
Other safety characteristics	
Solid content:	49,4 %
Evaporation rate:	not determined
Further Information	

<u>9</u>.



according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022

Product code: 218

Page 6 of 11

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

# Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	S No Chemical name					
	Exposure route	Dose		Species	Source	Method
2867-47-2	2-dimethylaminoethyl methacrylate					
	oral	ATE mg/kg	500			
	dermal	ATE mg/kg	1100			
79-41-4	Methacrylsäure					
	oral	ATE mg/kg	500			
	dermal	ATE mg/kg	300			
	inhalation vapour	ATE	11 mg/l			
	inhalation dust/mist	ATE	1.5 mg/l			

# Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

# Sensitising effects

May cause an allergic skin reaction.

(7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers); 2-dimethylaminoethyl methacrylate; Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

# STOT-single exposure

Based on available data, the classification criteria are not met.



according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022

Product code: 218

Page 7 of 11

# STOT-repeated exposure

Based on available data, the classification criteria are not met.

# Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

# The product has not been tested. 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself. Waste codes/waste designations according to EWC/AVV

# S

and transport (ADR/RID)	
14.1. UN number or ID number:	UN 3243
14.2. UN proper shipping name:	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.
	(7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dime
	thacrylat (mixture of isomers), 2-Propenoic acid, 2-methyl-,
	(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]
	ester)
14.3. Transport hazard class(es):	6.1
14.4. Packing group:	I
Hazard label:	6.1



according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022	Product code: 218	Page 8 of 1
	6	
Classification code:	Т9	
Special Provisions:	217 274 601	
Limited quantity:	500 g	
Excepted quantity:	E4	
Transport category:	2	
Hazard No:	60	
Tunnel restriction code:	D/E	
Inland waterways transport (ADN)		
14.1. UN number or ID number:	UN 3243	
14.2. UN proper shipping name:	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.	
<u> </u>	(7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1	,16-diol-dime
	thacrylat (mixture of isomers), 2-Propenoic acid, 2-methyl-,	,
	(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propar	nediyl)]
	ester)	5 /2
<u>14.3. Transport hazard class(es):</u>	6.1	
14.4. Packing group:	II	
Hazard label:	6.1	
	2.46	
	6	
Classification code:	Т9	
Special Provisions:	217 274 601 802	
Limited quantity:	500 g	
Excepted quantity:	E4	
Marine transport (IMDG)		
14.1. UN number or ID number:	UN 3243	
14.2. UN proper shipping name:	SOLIDS CONTAINING TOXIC LIQUID, N.O.S.	
	(7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1	16-diol-dime
	thacrylat (mixture of isomers), 2-Propenoic acid, 2-methyl-,	,
	(1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propar	nedivl)]
	ester)	
14.3. Transport hazard class(es):	6.1	
14.4. Packing group:	II	
Hazard label:	6.1	
	6	
Special Provisions:	217, 274	
Limited quantity:	500 g	
Excepted quantity:	E4	
Excepted quantity. EmS:	E4 F-A, S-A	
Air transport (ICAO-TI/IATA-DGR)	101.0040	
<u>14.1. UN number or ID number:</u>	UN 3243	



according to UK REACH Regulation

	(7,7,9-Trimethyl-4,13-c thacrylat (mixture of isc (1-methylethylidene)bis	de: 218 G TOXIC LIQUID, N.O.S. dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-i	Page 9 of 11
	(7,7,9-Trimethyl-4,13-c thacrylat (mixture of isc (1-methylethylidene)bis		
	ester)	omers), 2-Propenoic acid, 2-methyl-, s[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)]	dime
	6.1		
14.4. Packing group:			
Hazard label:	6.1		
Special Provisions:	A50		
Limited quantity Passenger:	1 kg		
5	Y644		
Excepted quantity:	E4		
IATA-packing instructions - Passenger: IATA-max. quantity - Passenger:		69 15 kg	
IATA-max. quantity - Passenger. IATA-packing instructions - Cargo:		576	
IATA-max. quantity - Cargo:		00 kg	
14.5. Environmental hazards		Ū	
ENVIRONMENTALLY HAZARDOUS:	No		
<b>14.6. Special precautions for user</b> No information available.			
14.7. Maritime transport in bulk according to not applicable	IMO Instruments		
SECTION 15: Regulatory information			
15.1. Safety, health and environmental regula	tions/legislation speci	fic for the substance or mixture	
EU regulatory information			
Restrictions on use (REACH, annex XVII): Entry 75			
2010/75/EU (VOC):	0,102 %		
2004/42/EC (VOC):	0,102 %		
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18	/EU (SEVESO III)	
National regulatory information			
	Observe restrictions to work protection guideli	employment for juveniles according to the 'juveni ne' (94/33/EC).	le
	3 - highly hazardous to Causes allergic hypers		
15.2. Chemical safety assessment			
Chemical safety assessments for substa	nces in this mixture we	re not carried out.	

# **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 7,8,14.



according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022

Product code: 218

Page 10 of 11

# Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1; H317	Calculation method
Aquatic Chronic 3; H412	Calculation method

# Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.



11

# according to UK REACH Regulation

# VITA VM LC OPAQUE PASTE und VM LC GINGIVA OPAQUE PASTE

Revision date: 18.11.2022	Product code: 218	Page 11 of
H317	May cause an allergic skin reaction.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H361f	Suspected of damaging fertility.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	

# **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UK REACH Regulation

# VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023

Product code: 186

Page 1 of 11

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

VITA VM LC OPAQUE LIQUID

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

# 1.3. Details of the supplier of the safety data sheet

ty data sheet	
VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Spitalgasse 3	
D-79713 Bad Säckingen	
1338	
D-79704 Bad Säckingen	
+49(0)7761-562-0	Telefax: +49(0)7761-562-299
info@vita-zahnfabrik.com	
regulatory affairs	
info@vita-zahnfabrik.com	
www.vita-zahnfabrik.com	
Regulatory Affairs	
+49-(0)761-19240	
	VITA Zahnfabrik H.Rauter GmbH & Co.KG Spitalgasse 3 D-79713 Bad Säckingen 1338 D-79704 Bad Säckingen +49(0)7761-562-0 info@vita-zahnfabrik.com regulatory affairs info@vita-zahnfabrik.com www.vita-zahnfabrik.com Regulatory Affairs

#### number:

Further Information

medical device

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

### GB CLP Regulation

Flam. Liq. 2; H225 Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335

Full text of hazard statements: see SECTION 16.

# 2.2. Label elements

# GB CLP Regulation

# Hazard components for labelling

methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate 2-hydroxyethyl methacrylate methyl methacrylate ethylene dimethacrylate 7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers) 2-dimethylaminoethyl methacrylate Signal word: Danger

# Pictograms:





according to UK REACH Regulation

VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023

Product code: 186

Page 2 of 11

# Hazard statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
Precautionary sta	tements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P233	Keep container tightly closed.
2.3. Other hazards	

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regula	tion)	•	
97-90-5	ethylene dimethacrylate			55 - < 60 %
	202-617-2	607-114-00-5	01-2119965172-38	
	Skin Sens. 1, STOT SE 3; H31	7 H335		
80-62-6	methyl methacrylate			20 - < 25 %
	201-297-1	607-035-00-6	01-2119452498-28	
	Flam. Liq. 2, Skin Irrit. 2, Skin	Sens. 1, STOT SE 3; H225 H3 <sup>-</sup>	5 H317 H335	
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,1 isomers)	10 - < 15 %		
	276-957-5		01-2120751202-68	
	Skin Sens. 1B, Aquatic Chroni	c 3; H317 H412		
2867-47-2	2-dimethylaminoethyl methacry	1 - < 5 %		
	220-688-8	607-132-00-3		
	Acute Tox. 4, Acute Tox. 4, Sk	in Irrit. 2, Eye Irrit. 2, Skin Sens	. 1; H312 H302 H315 H319 H317	
868-77-9	2-hydroxyethyl methacrylate			1 - < 5 %
	212-782-2	607-124-00-X		
	Skin Irrit. 2, Eye Irrit. 2, Skin S	ens. 1; H315 H319 H317		
80-62-6	methyl methacrylate; methyl 2-	< 1 %		
	201-297-1	607-035-00-6		
	Flam. Liq. 2, Skin Irrit. 2, Skin			

Full text of H and EUH statements: see section 16.



according to UK REACH Regulation

# VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023

Product code: 186

Page 3 of 11

# Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
	Specific Conc	Limits, M-factors and ATE	
97-90-5	202-617-2	ethylene dimethacrylate	55 - < 60 %
	dermal: LD50	) = 3300 mg/kg STOT SE 3; H335: >= 10 - 100	
80-62-6	201-297-1	methyl methacrylate	20 - < 25 %
	dermal: LD50	) = > 5000 mg/kg	
2867-47-2	220-688-8	2-dimethylaminoethyl methacrylate	1 - < 5 %
	dermal: ATE	= 1100 mg/kg; oral: ATE = 500 mg/kg	
868-77-9	212-782-2	2-hydroxyethyl methacrylate	1 - < 5 %
	oral: LD50 =	5050 mg/kg	
80-62-6	201-297-1	methyl methacrylate; methyl 2-methylprop-2-enoate; methyl 2-methylpropenoate	< 1 %
	dermal: LD50	) = >5000 mg/kg	

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

# After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

# 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder.

# Unsuitable extinguishing media

Water.

# 5.2. Special hazards arising from the substance or mixture

Highly flammable. Vapours can form explosive mixtures with air.

# 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

# Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# **SECTION 6: Accidental release measures**



according to UK REACH Regulation

# VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023

Product code: 186

Page 4 of 11

### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Remove all sources of ignition. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

#### 6.3. Methods and material for containment and cleaning up

#### Other information

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

### Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
80-62-6	Methyl methacrylate	50	208		TWA (8 h)	WEL
		100	416		STEL (15 min)	WEL

#### 8.2. Exposure controls



Page 5 of 11

according to UK REACH Regulation

Product code: 186

# VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023







#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Vitoject Breakthrough time: 30 min FKM (fluoro rubber)

### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing .

### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state:	Liquid	
Colour:	light yellow	
Odour:	characteristic	
Changes in the physical state		
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		101 °C
Flash point:		10 °C
Flammability		
Solid/liquid:		not applicable
Gas:		not applicable
Explosive properties The product is not: Explosive.		
Lower explosion limits:		2,1 vol. %
Upper explosion limits:		12,5 vol. %
Self-ignition temperature		
Solid:		not applicable
Gas:		not applicable
Decomposition temperature:		not determined
pH-Value:		not determined
Water solubility:		No



according to UK REACH Regulation

VITA VM LC OPAQUE LIQUID						
Revision date: 17.01.2023	Product code: 186	Page 6 of 11				
Solubility in other solvents not determined						
Partition coefficient n-octanol/water:	not determined					
Vapour pressure: (at 50 °C)	<=1100 hPa					
Density:	not determined					
Relative vapour density:	not determined					
9.2. Other information						
Information with regard to physical hazard classes						
Oxidizing properties Not oxidising.						
Other safety characteristics						
Solid content:	0,0 %					
Evaporation rate:	not determined					
Further Information						
SECTION 10: Stability and reactivity						

#### 10.1. Reactivity

Highly flammable.

# 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

### 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.



according to UK REACH Regulation

# VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023

Product code: 186

Page 7 of 11

CAS No	Chemical name						
	Exposure route	Dose		Species	Source	Method	
97-90-5	ethylene dimethacryl	ate					
	dermal	LD50 mg/kg	3300				
80-62-6	methyl methacrylate						
	dermal	LD50 mg/kg	> 5000				
2867-47-2	-2 2-dimethylaminoethyl methacrylate						
	oral	ATE mg/kg	500				
	dermal	ATE mg/kg	1100				
868-77-9	2-hydroxyethyl metha	acrylate					
	oral	LD50 mg/kg	5050	Rat			
80-62-6	methyl methacrylate;	; methyl 2-meth	ylprop-2-enoa	ate; methyl 2-methylp	ropenoate		
	dermal	LD50 mg/kg	>5000				

### Irritation and corrosivity

Causes skin irritation.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

### Sensitising effects

May cause an allergic skin reaction. (ethylene dimethacrylate; methyl methacrylate;

7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers);

2-dimethylaminoethyl methacrylate; 2-hydroxyethyl methacrylate; methyl methacrylate; methyl

# 2-methylprop-2-enoate; methyl 2-methylpropenoate) Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

May cause respiratory irritation. (ethylene dimethacrylate; methyl methacrylate)

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

# Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

# 12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	Method
868-77-9	2-hydroxyethyl methacryla	2-hydroxyethyl methacrylate					
	Acute fish toxicity	LC50	227 mg/l		Pimephales promelas		



according to UK REACH Regulation

# VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023

Product code: 186

Page 8 of 11

# 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

The product has not been tested.

# Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
868-77-9	2-hydroxyethyl methacrylate	0,47

#### 12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The product has not been tested.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# 12.7. Other adverse effects

No information available.

#### **Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number or ID number:	UN 1247
14.2. UN proper shipping name:	METHYL METHACRYLATE MONOMER, STABILIZED
14.3. Transport hazard class(es):	3
14.4. Packing group:	II
Hazard label:	3
Classification code:	F1
Special Provisions:	386
Limited quantity:	1 L
Excepted quantity:	E2
Transport category:	2
Hazard No:	339
Tunnel restriction code:	D/E
and waterways transport (ADN)	



according to UK REACH Regulation

	VITA VM LC OPAQUE LIQUID	
Revision date: 17.01.2023	Product code: 186	Page 9 of 11
<b>14.1. UN number or ID number:</b> <b>14.2. UN proper shipping name:</b> <b>14.3. Transport hazard class(es):</b> <b>14.4. Packing group:</b> Hazard label:	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED 3 II 3	
Classification code: Special Provisions: Limited quantity: Excepted quantity:	F1 386 1 L E2	
Marine transport (IMDG) <u>14.1. UN number or ID number:</u> <u>14.2. UN proper shipping name:</u> <u>14.3. Transport hazard class(es):</u> <u>14.4. Packing group:</u> Hazard label:	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED 3 II 3	
Special Provisions: Limited quantity: Excepted quantity: EmS: <b>Air transport (ICAO-TI/IATA-DGR)</b>	386 1 L E2 F-E, S-D	
14.1. UN number or ID number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:Hazard label:	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED 3 II 3	
Special Provisions: Limited quantity Passenger: Passenger LQ: Excepted quantity: IATA-packing instructions - Passenger: IATA-max. quantity - Passenger: IATA-packing instructions - Cargo: IATA-max. quantity - Cargo: IATA-max. quantity - Cargo:	A209 1 L Y341 E2 353 5 L 364 60 L	
ENVIRONMENTALLY HAZARDOUS: <u>14.6. Special precautions for user</u> Warning: Combustible liquid. <u>14.7. Maritime transport in bulk according to</u> not applicable	No <u>o IMO instruments</u>	

Revision No: 3 - Replaces version: 2



according to UK REACH Regulation

# VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023

Product code: 186

Page 10 of 11

# SECTION 15: Regulatory information

|--|

EU regulatory information	
Restrictions on use (REACH, annex XVII): Entry 3, Entry 40, Entry 75	
2010/75/EU (VOC):	1,216 %
2004/42/EC (VOC):	1,216 %
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	3 - highly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.
15.2. Chemical safety assessment	
	anana in this with we there not as will also t

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 1,14.

# Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations** DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail



according to UK REACH Regulation

# VITA VM LC OPAQUE LIQUID

Revision date: 17.01.2023

Product code: 186

Page 11 of 11

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 2; H225	On basis of test data
Skin Irrit. 2; H315	Calculation method
Skin Sens. 1; H317	Calculation method
STOT SE 3; H335	Calculation method

# Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects

### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UK REACH Regulation

# VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

Revision date: 10.07.2023

Product code: 161

Page 1 of 9

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

# 1.3. Details of the supplier of the safety data sheet

<u></u>	3. Details of the supplier of the sale	ly uala sheel	
	Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
	Street:	Spitalgasse 3	
	Place:	D-79713 Bad Säckingen	
	Post-office box:	1338	
		D-79704 Bad Säckingen	
	Telephone:	+49(0)7761-562-0	Telefax:+49(0)7761-562-299
	E-mail:	info@vita-zahnfabrik.com	
	Contact person:	regulatory affairs	
	E-mail:	info@vita-zahnfabrik.com	
	Internet:	www.vita-zahnfabrik.com	
	Responsible Department:	Regulatory Affairs	

# **Further Information**

medical device

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### **GB CLP Regulation**

Skin Sens. 1B; H317

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

# **GB CLP Regulation**

#### Hazard components for labelling

2,2'-ethylenedioxydiethyl dimethacrylate

2-hydroxyethyl methacrylate

7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)

# Signal word: Pictograms:



Warning

# Hazard statements

H317

May cause an allergic skin reaction.

# **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.

#### 2.3. Other hazards

No information available.



according to UK REACH Regulation

# VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

Revision date: 10.07.2023

Product code: 161

Page 2 of 9

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

# Hazardous components

CAS No	Chemical name		Quantity	
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)		15 - < 20 %	
	276-957-5 01-2120751202-68		01-2120751202-68	
	Skin Sens. 1B, Aquatic Chronic 3; H317 H412			
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate		15 - < 20 %	
	203-652-6		01-2119969287-21	
	Skin Sens. 1B; H317			

Full text of H and EUH statements: see section 16.

# **SECTION 4: First aid measures**

### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. IF ON SKIN: Wash with plenty of soap and water.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

# 4.2. Most important symptoms and effects, both acute and delayed

# No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# 5.2. Special hazards arising from the substance or mixture

#### Non-flammable.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.



according to UK REACH Regulation

# VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

Revision date: 10.07.2023

Product code: 161

Page 3 of 9

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

# 6.3. Methods and material for containment and cleaning up

### Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

# Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

# 7.2. Conditions for safe storage, including any incompatibilities

### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

# 7.3. Specific end use(s)

Use as laboratory reagent

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
		40	143		STEL (15 min)	WEL

#### 8.2. Exposure controls



according to UK REACH Regulation

# VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

Revision date: 10.07.2023

Product code: 161

Page 4 of 9





# Individual protection measures, such as personal protective equipment

# Eye/face protection

Suitable eye protection: goggles.

# Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Dermatril P Breakthrough time: 10 min NBR (Nitrile rubber)

# Skin protection

Use of protective clothing.

# **Respiratory protection**

Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

# **SECTION 9: Physical and chemical properties**

### 9.1. Information on basic physical and chemical properties

Physical state:	
Colour:	
Odour: characteristi	ic
Melting point/freezing point:	not determined
Boiling point or initial boiling point and	139 °C
boiling range:	
Flammability:	not determined
	not applicable
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Flash point:	151 °C
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	No
Solubility in other solvents	
not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	<=1100 hPa
(at 50 °C)	
Density:	not determined
Relative vapour density:	not determined
9.2. Other information	
Information with regard to physical hazard classes	
Explosive properties	
The product is not: Explosive.	
Self-ignition temperature	
Solid:	not determined
Gas:	not applicable



according to UK REACH Regulation

# VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

Revision date: 10.07.2023	Product code: 161	Page 5 of 9
Oxidizing properties Not oxidising.		
Other safety characteristics		
Evaporation rate:	not determined	
Solid content:	59,1 %	

# **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

# 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

# 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### **ATEmix calculated**

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

#### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction.

(7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers); 2,2'-ethylenedioxydiethyl dimethacrylate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

# STOT-single exposure

Based on available data, the classification criteria are not met.

# STOT-repeated exposure

Based on available data, the classification criteria are not met.

# Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

### 12.1. Toxicity

The product is not: Ecotoxic.



according to UK REACH Regulation

# VITAVM LC BASE DENTINE ENAMEL EFFECT-ENAMEL NEUTRAL GINGIVA

Revision date: 10.07.2023

Product code: 161

Page 6 of 9

# 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

# 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH. The product has not been tested.

# 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# 12.7. Other adverse effects

No information available.

# Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

# **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

#### Land transport (ADR/RID)

14.1. UN number or ID number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

Inland waterways transport (ADN)

14.1. UN number or ID number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

#### Marine transport (IMDG)

14.1. UN number or ID number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

# 14.4. Packing group:

Air transport (ICAO-TI/IATA-DGR)

# 14.1. UN number or ID number:

14.2. UN proper shipping name: 14.3. Transport hazard class(es):

14.4. Packing group:

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

No

# Print date: 10 07 2023

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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according to UK REACH Regulation

# VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

Revision date: 10.07.2023

Product code: 161

Page 7 of 9

# 14.6. Special precautions for user

No information available.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

# **SECTION 15: Regulatory information**

# 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### EU regulatory information

Le regulatory mornation	
Restrictions on use (REACH, annex XVII): Entry 75	
2010/75/EU (VOC):	0,103 %
2004/42/EC (VOC):	0,103 %
Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	1 - slightly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.
15.2. Chemical safety assessment	

Chemical safety assessments for substances in this mixture were not carried out.

# **SECTION 16: Other information**

# Changes

This data sheet contains changes from the previous version in section(s): 1.



according to UK REACH Regulation

# VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

Revision date: 10.07.2023

Product code: 161

Page 8 of 9

# Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu Acute Tox: Acute toxicity Skin Corr: Skin corrosion Skin Sens: Skin sensitisation STOT SE: Specific target organ toxicity - single exposure Aquatic Chronic: Chronic aquatic hazard Classification for mixtures and used evaluation method according to GB CI P Regulation

Classification	Classification procedure
Skin Sens. 1B; H317	Calculation method

# Relevant H and EUH statements (number and full text)

H412	May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.
Further Information	



according to UK REACH Regulation

# VITAVM LC BASE DENTINE\_ENAMEL\_EFFECT-ENAMEL\_NEUTRAL\_GINGIVA

Revision date: 10.07.2023

Product code: 161

Page 9 of 9

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UN GHS (ST/SG/AC.10/11/Rev.8)

# **VITA VM LC flow**

Revision date: 13.08.2019

Product code: 284

Page 1 of 7

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# 1.1. Product identifier

VITA VM LC flow

# 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

# 1.3. Details of the supplier of the safety data sheet

1.3. Details of the supplier of the s	allely data sheet	
Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Street:	Spitalgasse 3	
Place:	D-79713 Bad Säckingen	
Post-office box:	1338	
	D-79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax: +49(0)7761-562-299
e-mail:	info@vita-zahnfabrik.com	
Contact person:	regulatory affairs	
e-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
Responsible Department:	Regulatory Affairs	
1.4. Emergency telephone	+49-(0)761-19240	
numbor		

#### number:

**Further Information** 

medical device

# **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

# UN GHS (ST/SG/AC.10/11/Rev.8) Hazard categories: Respiratory or skin sensitisation: Skin Sens. 1 Hazardous to the aquatic environment: Aquatic Chronic 3 Hazard Statements: May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

# 2.2. Label elements

# UN GHS (ST/SG/AC.10/11/Rev.8)

#### Hazard components for labelling

2,2'-ethylenedioxydiethyl dimethacrylate

7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)

# Signal word:

Pictograms:



Warning

# Hazard statements

H317 H412 May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.



# according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC flow

Revision date: 13.08.2019

Product code: 284

Page 2 of 7

### **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P302+P352	IF ON SKIN: Wash with plenty of water.

### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

### Hazardous components

CAS No	Chemical name	Quantity
	Classification (UN GHS (ST/SG/AC.10/11/Rev.8))	
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)	15 - < 20 %
	Skin Sens. 1B, Aquatic Chronic 3; H317 H412	
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate	15 - < 20 %
	Skin Sens. 1B; H317	
94108-97-1	Ditrimethylolpropane Tetraacrylate	1 - < 5 %
	Eye Irrit. 2, Aquatic Chronic 2; H319 H411	
2867-47-2	2-dimethylaminoethyl methacrylate	< 1 %
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H312 H302 H315 H319 H317	

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

### **4.3. Indication of any immediate medical attention and special treatment needed** Treat symptomatically.

freat symptomatically.

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

# 5.2. Special hazards arising from the substance or mixture

Non-flammable.

#### 5.3. Advice for firefighters



according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC flow

Revision date: 13.08.2019

Product code: 284

Page 3 of 7

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

# Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

# 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

# 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

### **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### 8.2. Exposure controls



#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear eye/face protection.



# according to UN GHS (ST/SG/AC.10/11/Rev.8)

# **VITA VM LC flow**

Revision date: 13.08.2019

Product code: 284

Page 4 of 7

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Dermatril P NBR (Nitrile rubber) Breakthrough time: 10 min

#### Skin protection

Use of protective clothing.

# **Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Fresh air (open windows and doors) is necessary.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state: Colour:	viscous	
Odour:	characteristic	
Changes in the physical state		
Melting point/freezing point:		not determined
Boiling point or initial boiling point ar boiling range:	nd	> 283 °C
Flash point:		151 °C
Flammability Solid/liquid: Gas:		not determined not applicable
Explosive properties The product is not: Explosive.		
Self-ignition temperature		
Solid: Gas:		not determined not applicable
Decomposition temperature:		not determined
pH-Value:		not determined
Water solubility:		No
Solubility in other solvents not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure: (at 50 °C)		<=1100 hPa
Density:		not determined
Relative vapour density:		not determined
0.2. Other information		
Information with regard to physica	l hazard classes	
Oxidizing properties Not oxidising.		
Other safety characteristics		
Solid content:		62,84 %

<u>9</u>.



according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC flow

Revision date: 13.08.2019

Product code: 284

Page 5 of 7

Evaporation rate:

not determined

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

# 10.6. Hazardous decomposition products

No known hazardous decomposition products.

# **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in GB CLP Regulation

# Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2867-47-2	2-dimethylaminoethyl methacrylate				
		ATE 500 mg/kg			
		ATE 1100 mg/kg			

### Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction.

(7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers);

2,2'-ethylenedioxydiethyl dimethacrylate; 2-dimethylaminoethyl methacrylate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

# STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**



according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC flow

Revision date: 13.08.2019

12.1. Toxicity

Product code: 284

Page 6 of 7

Harmful to aquatic life with long lasting effects.

# 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

# 12.7. Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

# **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

# Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

# Marine transport (IMDG)

14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR)	
14.1. UN number or ID number:	No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name:	No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es):	No dangerous good in sense of this transport regulation.
14.4. Packing group:	No dangerous good in sense of this transport regulation.
14.5. Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No
14.6. Special precautions for user	
No information available.	
14.7. Maritime transport in bulk according to	IMO instruments
not applicable	
SECTION 15: Regulatory information	
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.



according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC flow

Revision date: 13.08.2019

Product code: 284

Page 7 of 7

#### **SECTION 16: Other information**

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,4,6,7,8,9,11,12,13,14,15,16.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration. 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration. Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals **UN: United Nations DNEL: Derived No Effect Level** DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: very persistent, very bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds SVHC: Substance of Very High Concern For abbreviations and acronyms, see table at http://abbrev.esdscom.eu **Further Information** 

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC PRE OPAQUE

Revision date: 13.08.2019

Product code: 263

Page 1 of 8

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

VITA VM LC PRE OPAQUE

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

Use as laboratory reagent

#### 1.3. Details of the supplier of the safety data sheet

1.3. Details of the supplier of the s	salety data sheet	
Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Street:	Spitalgasse 3	
Place:	D-79713 Bad Säckingen	
Post-office box:	1338	
	D-79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax: +49(0)7761-562-299
e-mail:	info@vita-zahnfabrik.com	
Contact person:	regulatory affairs	
e-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
Responsible Department:	Regulatory Affairs	
1.4. Emergency telephone	+49-(0)761-19240	
numbor		

#### <u>number:</u>

UN

**Further Information** 

medical device

# **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

GHS (ST/SG/AC.10/11/Rev.8)
Hazard categories:
Serious eye damage/eye irritation: Eye Irrit. 2
Respiratory or skin sensitisation: Skin Sens. 1
Hazardous to the aquatic environment: Aquatic Chronic
Hazard Statements:
Causes serious eye irritation.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

#### UN GHS (ST/SG/AC.10/11/Rev.8)

#### Hazard components for labelling

7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)

3

Signal word:

l:

Pictograms:



Warning

#### Hazard statements

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.



#### according to UN GHS (ST/SG/AC.10/11/Rev.8)

#### VITA VM LC PRE OPAQUE

Revision date: 13.08.2019

Product code: 263

Page 2 of 8

#### **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

#### 2.3. Other hazards

No information available.

#### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	
	Classification (UN GHS (ST/SG/AC.10/11/Rev.8))	
72869-86-4	7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers)	30 - < 35 %
	Skin Sens. 1B, Aquatic Chronic 3; H317 H412	
94108-97-1	Ditrimethylolpropane Tetraacrylate	10 - < 15 %
	Eye Irrit. 2, Aquatic Chronic 2; H319 H411	
2867-47-2	2-dimethylaminoethyl methacrylate	< 1 %
	Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1; H312 H302 H315 H319 H317	

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. Wash with plenty of water.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

# Non-flammable.

# 5.3. Advice for firefighters



according to UN GHS (ST/SG/AC.10/11/Rev.8)

#### VITA VM LC PRE OPAQUE

Revision date: 13.08.2019

Product code: 263

Page 3 of 8

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### General advice

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

#### Other information

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
79-41-4	Methacrylic acid	20	72		TWA (8 h)	WEL
		40	143		STEL (15 min)	WEL

#### 8.2. Exposure controls



according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC PRE OPAQUE

Revision date: 13.08.2019

Product code: 263

Page 4 of 8



#### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Suitable eye protection: goggles.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended glove articles KCL Dermatril P Breakthrough time: 30 min NBR (Nitrile rubber)

#### Skin protection

Use of protective clothing.

#### **Respiratory protection**

Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state: Colour:	
Changes in the physical state	
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	?
Flash point:	151 °C
Flammability	
Solid/liquid:	not determined
Gas:	not applicable
Explosive properties The product is not: Explosive.	
Lower explosion limits:	not determined
Upper explosion limits:	not determined
Self-ignition temperature	
Solid:	not determined
Gas:	not applicable
Decomposition temperature:	not determined
pH-Value:	not determined
Water solubility:	No
Solubility in other solvents not determined	
Partition coefficient n-octanol/water:	not determined
Vapour pressure: (at 50 °C)	<=1100 hPa



# according to UN GHS (ST/SG/AC.10/11/Rev.8)

VITA VM LC PRE OPAQUE			
Revision date: 13.08.2019	Product code: 263	Page 5 of 8	
Density:	not determined		
Relative vapour density:	not determined		
9.2. Other information			
Information with regard to physical hazard cla	sses		
Oxidizing properties Not oxidising.			
Other safety characteristics			
Solid content:	49,7 %		
Evaporation rate:	not determined		

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
2867-47-2	2-dimethylaminoethyl met	hacrylate			
		ATE 500 mg/kg			
		ATE 1100 mg/kg			

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

May cause an allergic skin reaction.

(7,7,9-Trimethyl-4,13-dioxo-3,14-dioxa-5,12-diaza-hexadecan-1,16-diol-dimethacrylat (mixture of isomers); 2-dimethylaminoethyl methacrylate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.



according to UN GHS (ST/SG/AC.10/11/Rev.8)

#### VITA VM LC PRE OPAQUE

Revision date: 13.08.2019

Product code: 263

Page 6 of 8

# STOT-single exposure

Based on available data, the classification criteria are not met.

# STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

# 12.2. Persistence and degradability

The product has not been tested.

#### 12.3. Bioaccumulative potential

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

#### 12.7. Other adverse effects

No information available.

#### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself. Waste codes/waste designations according to EWC/AVV

#### **SECTION 14: Transport information**

#### Marine transport (IMDG)

14.1. UN number or ID number:No dangerous goo14.2. UN proper shipping name:No dangerous goo14.3. Transport hazard class(es):No dangerous goo14.4. Packing group:No dangerous gooAir transport (ICAO-TI/IATA-DGR)No dangerous goo14.1. UN number or ID number:No dangerous goo14.2. UN proper shipping name:No dangerous goo14.3. Transport hazard class(es):No dangerous goo

14.4. Packing group:

#### 14.5. Environmental hazards

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.



#### according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC PRE OPAQUE Revision date: 13.08.2019 Product code: 263 Page 7 of 8 **ENVIRONMENTALLY HAZARDOUS:** No 14.6. Special precautions for user No information available. 14.7. Maritime transport in bulk according to IMO instruments not applicable **SECTION 15: Regulatory information** National regulatory information Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Skin resorption/Sensitization: Causes allergic hypersensitivity reactions. **SECTION 16: Other information** Changes This data sheet contains changes from the previous version in section(s): 1,2,4,5,6,7,8,9,11,12,13,14,15,16. Abbreviations and acronyms ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

ICAO: International Civil Aviation Organization

MARPOL: International Convention for the Prevention of Marine Pollution from Ships



according to UN GHS (ST/SG/AC.10/11/Rev.8)

# VITA VM LC PRE OPAQUE

Revision date: 13.08.2019

Product code: 263

Page 8 of 8

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)



according to Regulation (EC) No 1907/2006

#### VITAVM LC MODELLING LIQUID

Revision date: 02.08.2019

Product code: 151

Page 1 of 8

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

VITAVM LC MODELLING LIQUID

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

# Use as laboratory reagent

# 1.3. Details of the supplier of the safety data sheet

Company name:	VITA Zahnfabrik H.Rauter GmbH & Co.KG	
Post-office box:	1338	
	79704 Bad Säckingen	
Telephone:	+49(0)7761-562-0	Telefax:+49(0)7761-562-299
e-mail:	info@vita-zahnfabrik.com	
Internet:	www.vita-zahnfabrik.com	
4. Emergency telephone	+49-(0)761-19240	
umber:		

#### **Further Information**

medical device

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories: Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2 Respiratory or skin sensitisation: Skin Sens. 1B Hazard Statements: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.

#### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Hazard components for labelling

2,2'-ethylenedioxydiethyl dimethacrylate 2-dimethylaminoethyl methacrylate Warning

Signal word:

#### **Pictograms:**



#### Hazard statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.

#### **Precautionary statements**

P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.



according to Regulation (EC) No 1907/2006

# VITAVM LC MODELLING LIQUID

Revision date: 02.08.2019

Product code: 151

Page 2 of 8

#### 2.3. Other hazards

No information available.

# **SECTION 3: Composition/information on ingredients**

# 3.2. Mixtures

#### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	GHS Classification	•	·	
109-16-0	2,2'-ethylenedioxydiethyl dimethacrylate			75 - < 80 %
	203-652-6		01-2119969287-21	
	Skin Sens. 1B; H317			
90551-76-1	Methacrylic ester			15 - < 20 %
	292-094-7	607-134-00-4		
	Skin Irrit. 2, Eye Irrit. 2, STOT SI			
2867-47-2	2-dimethylaminoethyl methacrylate			< 1 %
	220-688-8	607-132-00-3		
	Acute Tox. 4, Acute Tox. 4, Skin			

Full text of H and EUH statements: see section 16.

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.

#### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

#### After ingestion

Rinse mouth immediately and drink plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

# 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

#### 5.2. Special hazards arising from the substance or mixture

Non-flammable.

#### 5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.



according to Regulation (EC) No 1907/2006

VITAVM LC MODELLING LIQUID

Revision date: 02.08.2019

Product code: 151

Page 3 of 8

#### Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

#### 6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### 6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Advice on safe handling

No special measures are necessary.

#### Advice on protection against fire and explosion

No special fire protection measures are necessary.

#### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep container tightly closed.

#### Hints on joint storage

No special measures are necessary.

# 7.3. Specific end use(s)

Use as laboratory reagent

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.2. Exposure controls



#### Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four



according to Regulation (EC) No 1907/2006

# VITAVM LC MODELLING LIQUID

Revision date: 02.08.2019

Product code: 151

Page 4 of 8

control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. NBR (Nitrile rubber) Recommended glove articles KCL Camtril Velour Breakthrough time (maximum wearing time) 30 min

#### Skin protection

Use of protective clothing.

#### **Respiratory protection**

Provide adequate ventilation as well as local exhaustion at critical locations. Technical ventilation of workplace

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state:	Liquid		
Colour:	colourless		
Odour:	characteristic		
pH-Value:		not determined	
Changes in the physical state			
Melting point:		not determined	
Initial boiling point and boiling range:		?	
Flash point:		?	
Flammability Solid:		net englischle	
Gas:		not applicable not applicable	
		not applicable	
Explosive properties The product is not: Explosive.			
Lower explosion limits:		not determined	
Upper explosion limits:		not determined	
Auto-ignition temperature			
Solid:		not applicable	
Gas:		not applicable	
Decomposition temperature:		not determined	
Oxidizing properties Not oxidising.			
Vapour pressure: (at 50 °C)		<=1100 hPa	
Density:		1,06000 g/cm³	
Water solubility:		No	
Solubility in other solvents not determined			
Partition coefficient:		not determined	
Vapour density:		not determined	
Evaporation rate:		not determined	
9.2. Other information			
Solid content:		0,0 %	

#### **SECTION 10: Stability and reactivity**



according to Regulation (EC) No 1907/2006

#### VITAVM LC MODELLING LIQUID

Revision date: 02.08.2019

Product code: 151

Page 5 of 8

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4. Conditions to avoid

none

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

#### **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
90551-76-1	Methacrylic ester					
	dermal	LD50 mg/kg	3000			
2867-47-2	2-dimethylaminoethyl methacrylate					
	oral	ATE mg/kg	500			
	dermal	ATE mg/kg	1100			

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### Sensitising effects

May cause an allergic skin reaction. (2,2'-ethylenedioxydiethyl dimethacrylate; 2-dimethylaminoethyl methacrylate)

#### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product is not: Ecotoxic.

# VITA

# Safety Data Sheet

according to Regulation (EC) No 1907/2006

# VITAVM LC MODELLING LIQUID Product code: 151

Revision date: 02.08.2019

#### 12.2. Persistence and degradability

The product has not been tested.

# 12.3. Bioaccumulative potential

The product has not been tested.

#### 12.4. Mobility in soil

The product has not been tested.

#### 12.5. Results of PBT and vPvB assessment

The product has not been tested.

#### 12.6. Other adverse effects

No information available.

#### Further information

Avoid release to the environment.

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### **Disposal recommendations**

Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

#### **SECTION 14: Transport information**

# Land transport (ADR/RID)

<u>14.1. UN number:</u> <u>14.2. UN proper shipping name:</u>

14.3. Transport hazard class(es): 14.4. Packing group:

Inland waterways transport (ADN)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

Marine transport (IMDG)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

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14.4. Packing group:
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#### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number:

14.2. UN proper shipping name:

14.3. Transport hazard class(es):

14.4. Packing group:

#### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

14.6. Special precautions for user No information available. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

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no

#### Page 6 of 8



according to Regulation (EC) No 1907/2006

#### VITAVM LC MODELLING LIQUID

Revision date: 02.08.2019

Product code: 151

Page 7 of 8

#### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information Information according to 2012/18/EU (SEVESO III):	Not subject to 2012/18/EU (SEVESO III)
National regulatory information	
Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).
Water hazard class (D):	1 - slightly hazardous to water
Skin resorption/Sensitization:	Causes allergic hypersensitivity reactions.

# 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

#### **SECTION 16: Other information**

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service LC50: Lethal concentration, 50% LD50: Lethal dose, 50% CLP: Classification, labelling and Packaging REACH: Registration, Evaluation and Authorization of Chemicals GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals UN: United Nations DNEL: Derived No Effect Level DMEL: Derived Minimal Effect Level PNEC: Predicted No Effect Concentration ATE: Acute toxicity estimate LL50: Lethal loading, 50% EL50: Effect loading, 50% EC50: Effective Concentration 50% ErC50: Effective Concentration 50%, growth rate NOEC: No Observed Effect Concentration BCF: Bio-concentration factor PBT: persistent, bioaccumulative, toxic vPvB: verv persistent, verv bioaccumulative RID: Regulations concerning the international carriage of dangerous goods by rail ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures) EmS: Emergency Schedules MFAG: Medical First Aid Guide ICAO: International Civil Aviation Organization MARPOL: International Convention for the Prevention of Marine Pollution from Ships



according to Regulation (EC) No 1907/2006

# VITAVM LC MODELLING LIQUID

Revision date: 02.08.2019

Product code: 151

Page 8 of 8

# IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
Skin Sens. 1B; H317	Calculation method

#### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

#### **Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)